

Name: _____

Date: _____

1) List three **categorical variables**: (2pts each)

a. _____

b. _____

c. _____

2) List three **values** of the categorical variable, “Baseball Teams”. (2pts each)

a. _____

b. _____

c. _____

3) Grade level is not a categorical variable, even though it is a number. Why not? (3pts)

4) Bars in a bar graph can be in any order. Why is this so? (3pts)

Statistics

Unit 2 – Categorical Data Bar Graph Test Review

Ms. Raskin conducted a survey of students and asked them what their dominant hand is and if they prefer to type or write with a pen. Here are the results.

	Right-Handed	Left-Handed	Total
Prefer to write	32	22	54
Prefer to type	18	16	34
Total	50	38	88

- 5) Identify the **variables** in the table: _____
(2pts each)
- 6) What are the **values** for the variable, “dominant hand”? _____
(1pt each)
- 7) Make a labeled Venn Diagram to show the data in the table. (5pts)
- 8) Make a side-by-side bar graph to show the data in the table. (6pts)
- 9) Are “dominant hand” and “writing/typing preference” independent? Explain why or why not. Use data to support your claim. (5pts)

The table below shows made-up data for the 77 seniors at Washington Latin.

		Takes a History Class		Total
		Yes	No	
Advisor	Clausen	5	7	14
	Jesseman	2	12	14
	Porcelli	10	4	14
	Raskin	5	9	14
	Seid	4	9	13
	Stouder	6	2	8
	Total	32	43	77

10) What percent of students are in Mr. Porcelli's advisory? (3pts)

11) What percent of students take a history class, given that they are in Mr. Porcelli's advisory? (3pts)

12) Are the events, "in Mr. Porcelli's advisory" and "takes a history class" independent? (5pts)

13) Make a side-by-side bar graph to show the data in the table. (6pts)

Statistics

Unit 2 – Categorical Data Bar Graph Test Review

14) Find the following percents: (3pts each)

a. 22% of 168

b. 176% of what number is 56?

c. What percent of 24 is 10?
